

(425) 420-9200 FAX 420-9210
(509) 924-9200 FAX 924-9290
(503) 906-9200 FAX 906-9210
(541) 383-9310 FAX 382-7588

Work Order #:

P1-HO 409

**Turnaround Requests less than standard may incur Rush Charges.*

[illegible][illegible]

RELINQUISHED BY: <i>[Signature]</i>	DATE: 8/11/01	RECEIVED BY: <i>[Signature]</i>	DATE: 8/11/01
PRINT NAME: Charlie Marshall FIRM: BRISTOL	TIME: 1440	PRINT NAME: <i>[Signature]</i> FIRM: NCA	TIME: 1423
RELINQUISHED BY: <i>[Signature]</i>	DATE: 8/11/01	RECEIVED BY: <i>[Signature]</i>	DATE: 8/11/01
PRINT NAME: KEND R. PATE FIRM: NCA	TIME: 1452	PRINT NAME: Camille Holladay FIRM: NCA	TIME: 1641

ADDITIONAL REMARKS:

COC REV 3/99

TEMP:

11.3

PAGE / OF/



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503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

27 August, 2001

Anne Kranawetter
Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 08/17/01 16:41. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jerry Orlando
Project Manager/QA

Work Orders included in this report:

P1H0491



Seattle 1172 Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Anne Kranawetter

Reported:
08/27/01 10:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMC324MI	P1H0491-01	Other wet	08/11/01 14:20	08/17/01 16:41
01AMC325MI	P1H0491-02	Water	08/11/01 14:25	08/17/01 16:41

North Creek Analytical - Portland

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jerry Orlando, Project Manager/QA

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Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Anne Kranawetter


Reported:
08/27/01 10:23

Diesel Range Organics (C10-C25) per AK102
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC324MI (P1H0491-01) Other wet					Sampled: 08/11/01 Received: 08/17/01				
Diesel Range Organics	16.6	0.250	mg/l	1	AK 102	08/20/01	08/21/01	1081515	A-01
Surr: 1-Chlorooctadecane	84.8 %	75-125							

North Creek Analytical - Portland

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Jerry Orlando, Project Manager/QA

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Anne Kranawetter


Reported:
08/27/01 10:23

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC324MI (P1H0491-01) Other wet						Sampled: 08/11/01 Received: 08/17/01			
Arsenic	ND	3.53	mg/kg	70.6	EPA 6020	08/20/01	08/21/01	1081541	
Barium	ND	1.00	"	20	"	"	08/20/01	"	
Cadmium	ND	1.00	"	"	"	"	"	"	
Chromium	ND	1.00	"	"	"	"	"	"	
Lead	ND	1.00	"	"	"	"	"	"	
Mercury	ND	0.00800	mg/l	1	EPA 7470A	08/20/01	08/20/01	1081519	R-03
Selenium	ND	1.00	mg/kg	20	EPA 6020	08/20/01	08/20/01	1081541	
Silver	ND	1.00	"	"	"	"	"	"	

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Jerry Orlando, Project Manager/QA

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Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 21090, PO# 21090
 Project Manager: Anne Kranawetter


Reported:
 08/27/01 10:23

Glycols by GC/FID
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC324MI (P1H0491-01) Other wet						Sampled: 08/11/01 Received: 08/17/01			R-05
Diethylene Glycol	ND	3000	mg/kg	100	EPA 8015m	08/20/01	08/20/01	1081512	R-03
Ethylene Glycol	91900	5000	"	1000	"	"	08/20/01	"	
Propylene Glycol	ND	500	"	100	"	"	08/20/01	"	
Surr: 1,2-Pentanediol	NR	50-150							S-01

North Creek Analytical - Portland

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4 of 21



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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Anne Kranawetter

Reported:
08/27/01 10:23

Volatile Organic Compounds per EPA Method 8260B
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC324MI (P1H0491-01) Other wet						Sampled: 08/11/01 Received: 08/17/01		P-02	
Acetone	ND	25000	ug/kg wet	1	EPA 8260B	08/20/01	08/23/01	1081513	
Benzene	ND	1000	"	"	"	"	"	"	
Bromobenzene	ND	1000	"	"	"	"	"	"	
Bromochloromethane	ND	1000	"	"	"	"	"	"	
Bromodichloromethane	ND	1000	"	"	"	"	"	"	
Bromoform	ND	1000	"	"	"	"	"	"	
Bromomethane	ND	5000	"	"	"	"	"	"	
2-Butanone	ND	10000	"	"	"	"	"	"	
n-Butylbenzene	ND	5000	"	"	"	"	"	"	
sec-Butylbenzene	ND	1000	"	"	"	"	"	"	
tert-Butylbenzene	ND	1000	"	"	"	"	"	"	
Carbon disulfide	ND	10000	"	"	"	"	"	"	
Carbon tetrachloride	ND	1000	"	"	"	"	"	"	
Chlorobenzene	ND	1000	"	"	"	"	"	"	
Chloroethane	ND	1000	"	"	"	"	"	"	
Chloroform	ND	1000	"	"	"	"	"	"	
Chloromethane	ND	5000	"	"	"	"	"	"	
2-Chlorotoluene	ND	1000	"	"	"	"	"	"	
4-Chlorotoluene	ND	1000	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5000	"	"	"	"	"	"	
Dibromochloromethane	ND	1000	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1000	"	"	"	"	"	"	
Dibromomethane	ND	1000	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1000	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1000	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5000	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1000	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1000	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1000	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1000	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1000	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1000	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1000	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1000	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1000	"	"	"	"	"	"	
Ethylbenzene	ND	1000	"	"	"	"	"	"	

North Creek Analytical - Portland

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Jerry Orlando
Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
Environmental Laboratory Network

5 of 21

Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 21090, PO# 21090
 Project Manager: Anne Kranawetter

Reported:
 08/27/01 10:23

Volatile Organic Compounds per EPA Method 8260B
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC324MI (P1H0491-01) Other wet						Sampled: 08/11/01		Received: 08/17/01	
Hexachlorobutadiene	ND	2000	ug/kg wet	1	EPA 8260B	08/20/01	08/23/01	1081513	P-02
2-Hexanone	ND	10000	"	"	"	"	"	"	
Isopropylbenzene	ND	2000	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2000	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	5000	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1000	"	"	"	"	"	"	
Methylene chloride	ND	5000	"	"	"	"	"	"	
Naphthalene	ND	2000	"	"	"	"	"	"	
n-Propylbenzene	ND	1000	"	"	"	"	"	"	
Styrene	ND	1000	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1000	"	"	"	"	"	"	
Tetrachloroethene	ND	1000	"	"	"	"	"	"	
Toluene	ND	1000	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1000	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1000	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1000	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1000	"	"	"	"	"	"	
Trichloroethene	ND	1000	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1000	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1000	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1000	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1000	"	"	"	"	"	"	
Vinyl chloride	ND	1000	"	"	"	"	"	"	
o-Xylene	ND	1000	"	"	"	"	"	"	
m,p-Xylene	ND	2000	"	"	"	"	"	"	
Surr: 4-BFB	96.0 %	70-130							
Surr: 1,2-DCA-d4	86.0 %	70-130							
Surr: Dibromofluoromethane	81.0 %	70-130							
Surr: Toluene-d8	96.5 %	70-130							

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
Environmental Laboratory Network

6 of 21

Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 21090, PO# 21090
 Project Manager: Anne Kranawetter


Reported:
 08/27/01 10:23

Volatile Organic Compounds per EPA Method 8260B
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC325MI (P1H0491-02) Water						Sampled: 08/11/01 Received: 08/17/01			
Acetone	ND	25.0	ug/l	1	EPA 8260B	08/20/01	08/20/01	1081511	
Benzene	ND	1.00	"	"	"	"	"	"	
Bromobenzene	ND	1.00	"	"	"	"	"	"	
Bromochloromethane	ND	1.00	"	"	"	"	"	"	
Bromodichloromethane	ND	1.00	"	"	"	"	"	"	
Bromoform	ND	1.00	"	"	"	"	"	"	
Bromomethane	ND	5.00	"	"	"	"	"	"	
2-Butanone	ND	10.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.00	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.00	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.00	"	"	"	"	"	"	
Carbon disulfide	ND	10.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.00	"	"	"	"	"	"	
Chlorobenzene	ND	1.00	"	"	"	"	"	"	
Chloroethane	ND	1.00	"	"	"	"	"	"	
Chloroform	ND	1.00	"	"	"	"	"	"	
Chloromethane	ND	5.00	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.00	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.00	"	"	"	"	"	"	
Dibromochloromethane	ND	1.00	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1.00	"	"	"	"	"	"	
Dibromomethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.00	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	5.00	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.00	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.00	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.00	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.00	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.00	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.00	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.00	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.00	"	"	"	"	"	"	
Ethylbenzene	ND	1.00	"	"	"	"	"	"	

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
Environmental Laboratory Network

7 of 21

Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Anne Kranawetter


Reported:
08/27/01 10:23

Volatile Organic Compounds per EPA Method 8260B
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC325MI (P1H0491-02) Water						Sampled: 08/11/01 Received: 08/17/01			
Hexachlorobutadiene	ND	2.00	ug/l	1	EPA 8260B	08/20/01	08/20/01	1081511	
2-Hexanone	ND	10.0	"	"	"	"	"	"	
Isopropylbenzene	ND	2.00	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.00	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	5.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.00	"	"	"	"	"	"	
Methylene chloride	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	1.00	"	"	"	"	"	"	
Styrene	ND	1.00	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.00	"	"	"	"	"	"	
Tetrachloroethene	ND	1.00	"	"	"	"	"	"	
Toluene	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.00	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.00	"	"	"	"	"	"	
Trichloroethene	ND	1.00	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.00	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.00	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	1.00	"	"	"	"	"	"	
o-Xylene	ND	1.00	"	"	"	"	"	"	
m,p-Xylene	ND	2.00	"	"	"	"	"	"	
Surr: 4-BFB	103 %	75-125							
Surr: 1,2-DCA-d4	95.5 %	75-125							
Surr: Dibromofluoromethane	102 %	75-125							
Surr: Toluene-d8	105 %	75-125							

North Creek Analytical - Portland

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Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Anne Kranawetter

Reported:
08/27/01 10:23

Physical Parameters per APHA/ASTM/EPA Methods
North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC324MI (P1H0491-01) Other wet						Sampled: 08/11/01 Received: 08/17/01			
Flashpoint	ND	150	°F	1	EPA 1010	08/20/01	08/20/01	1081556	

North Creek Analytical - Portland

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Jerry Orlando, Project Manager/QA

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Environmental Laboratory Network

9 of 21

Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 21090, PO# 21090
 Project Manager: Anne Kranawetter

Reported:
 08/27/01 10:23

Diesel Range Organics (C10-C25) per AK102 - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 1081515 - EPA 3510 Fuels

Blank (1081515-BLK1)

Prepared: 08/20/01 Analyzed: 08/21/01

Diesel Range Organics	ND	0.250	mg/l							
Surr: 1-Chlorooctadecane	0.0798		"	0.0960		83.1	75-125			

LCS (1081515-BS1)

Prepared: 08/20/01 Analyzed: 08/21/01

Diesel Range Organics	2.19	0.250	mg/l	2.58		84.9	75-125			
Surr: 1-Chlorooctadecane	0.0782		"	0.0960		81.5	75-125			

LCS Dup (1081515-BSD1)

Prepared: 08/20/01 Analyzed: 08/21/01

Diesel Range Organics	2.11	0.250	mg/l	2.58		81.8	75-125	3.72	20	
Surr: 1-Chlorooctadecane	0.0777		"	0.0960		80.9	75-125			

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
 Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Anne Kranawetter

Reported:
08/27/01 10:23

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1081519 - EPA 7470

Blank (1081519-BLK1)

Prepared & Analyzed: 08/20/01

Mercury	ND	0.000200	mg/l
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LCS (1081519-BS1)

Prepared & Analyzed: 08/20/01

Mercury	0.00502	0.000200	mg/l	0.00500	100	80-120
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Duplicate (1081519-DUP1)

Source: P1G0822-01

Prepared & Analyzed: 08/20/01

Mercury	ND	0.000200	mg/l	ND		20
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Matrix Spike (1081519-MS1)

Source: P1G0822-01

Prepared & Analyzed: 08/20/01

Mercury	0.00479	0.000200	mg/l	0.00500	ND	95.8	75-125
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Matrix Spike (1081519-MS2)

Source: P1H0244-06

Prepared & Analyzed: 08/20/01

Mercury	0.00486	0.000200	mg/l	0.00500	ND	97.2	75-125
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Batch 1081541 - EPA 3010

Blank (1081541-BLK1)

Prepared: 08/20/01 Analyzed: 08/21/01

Arsenic	ND	0.0200	mg/kg
Barium	ND	0.0200	"
Cadmium	ND	0.0200	"
Chromium	ND	0.0200	"
Lead	ND	0.0200	"
Selenium	ND	0.0200	"
Silver	ND	0.0200	"


LCS (1081541-BS1)

Prepared: 08/20/01 Analyzed: 08/21/01

Arsenic	0.184	0.0200	mg/kg	0.200	92.0	80-120
Barium	0.221	0.0200	"	0.200	110	80-120
Cadmium	0.226	0.0200	"	0.200	113	80-120
Chromium	0.233	0.0200	"	0.200	116	80-120
Lead	0.230	0.0200	"	0.200	115	80-120
Selenium	0.227	0.0200	"	0.200	114	80-120
Silver	0.105	0.0200	"	0.100	105	80-120

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North Creek Analytical, Inc.
Environmental Laboratory Network

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Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 21090, PO# 21090
 Project Manager: Anne Kranawetter

Reported:
 08/27/01 10:23

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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
Batch 1081541 - EPA 3010

Duplicate (1081541-DUP1)		Source: P1H0491-01			Prepared: 08/20/01 Analyzed: 08/21/01					
Arsenic	ND	1.00	mg/kg		ND				20	
Barium	ND	1.00	"		ND				20	
Cadmium	ND	1.00	"		ND				20	
Chromium	ND	1.00	"		ND				20	
Lead	ND	1.00	"		ND			15.4	20	
Selenium	ND	1.00	"		ND				20	
Silver	ND	1.00	"		ND				20	

Matrix Spike (1081541-MS1)		Source: P1H0491-01			Prepared & Analyzed: 08/20/01					
Arsenic	10.7	1.00	mg/kg	10.0	ND	107	75-125			
Barium	10.6	1.00	"	10.0	ND	106	75-125			
Cadmium	10.7	1.00	"	10.0	ND	107	75-125			
Chromium	10.8	1.00	"	10.0	ND	108	75-125			
Lead	11.0	1.00	"	10.0	ND	109	75-125			
Selenium	9.36	1.00	"	10.0	ND	93.6	75-125			
Silver	4.93	1.00	"	5.00	ND	98.6	75-125			

North Creek Analytical - Portland

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North Creek Analytical, Inc.
Environmental Laboratory Network

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Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 21090, PO# 21090
 Project Manager: Anne Kranawetter

Reported:
 08/27/01 10:23


Glycols by GC/FID - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1081512 - GC Semivolatiles										
Blank (1081512-BLK1)				Prepared & Analyzed: 08/20/01						
Diethylene Glycol	ND	5.00	mg/kg							
Ethylene Glycol	ND	5.00	"							
Propylene Glycol	ND	5.00	"							
<i>Surr: 1,2-Pentanediol</i>	88.2		"	100		88.2	50-150			
LCS (1081512-BS1)				Prepared & Analyzed: 08/20/01						
Diethylene Glycol	206	5.00	mg/kg	200		103	50-150			
Ethylene Glycol	210	5.00	"	200		105	50-150			
Propylene Glycol	205	5.00	"	200		102	50-150			
<i>Surr: 1,2-Pentanediol</i>	92.4		"	100		92.4	50-150			
Duplicate (1081512-DUP1)				Source: P1H0491-01		Prepared & Analyzed: 08/20/01				
Diethylene Glycol	ND	3000	mg/kg		ND				200	R-03
Ethylene Glycol	99100	5000	"		91900			7.54	200	
Propylene Glycol	ND	500	"		ND				200	
<i>Surr: 1,2-Pentanediol</i>	0.00		"	100			50-150			S-01

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North Creek Analytical, Inc.
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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Anne Kranawetter

Reported:
08/27/01 10:23

Volatile Organic Compounds per EPA Method 8260B - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1081511 - EPA 5030B

Blank (1081511-BLK1)

Prepared & Analyzed: 08/20/01

Acetone	ND	25.0	ug/l
Benzene	ND	1.00	"
Bromobenzene	ND	1.00	"
Bromochloromethane	ND	1.00	"
Bromodichloromethane	ND	1.00	"
Bromoform	ND	1.00	"
Bromomethane	ND	5.00	"
2-Butanone	ND	10.0	"
n-Butylbenzene	ND	5.00	"
sec-Butylbenzene	ND	1.00	"
tert-Butylbenzene	ND	1.00	"
Carbon disulfide	ND	10.0	"
Carbon tetrachloride	ND	1.00	"
Chlorobenzene	ND	1.00	"
Chloroethane	ND	1.00	"
Chloroform	ND	1.00	"
Chloromethane	ND	5.00	"
2-Chlorotoluene	ND	1.00	"
4-Chlorotoluene	ND	1.00	"
1,2-Dibromo-3-chloropropane	ND	5.00	"
Dibromochloromethane	ND	1.00	"
1,2-Dibromoethane	ND	1.00	"
Dibromomethane	ND	1.00	"
1,2-Dichlorobenzene	ND	1.00	"
1,3-Dichlorobenzene	ND	1.00	"
1,4-Dichlorobenzene	ND	1.00	"
Dichlorodifluoromethane	ND	5.00	"
1,1-Dichloroethane	ND	1.00	"
1,2-Dichloroethane	ND	1.00	"
1,1-Dichloroethene	ND	1.00	"
cis-1,2-Dichloroethene	ND	1.00	"
trans-1,2-Dichloroethene	ND	1.00	"
1,2-Dichloropropane	ND	1.00	"
1,3-Dichloropropane	ND	1.00	"
2,2-Dichloropropane	ND	1.00	"
1,1-Dichloropropene	ND	1.00	"

North Creek Analytical - Portland

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North Creek Analytical, Inc.
Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Anne Kranawetter

Reported:
08/27/01 10:23

Volatile Organic Compounds per EPA Method 8260B - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1081511 - EPA 5030B


Blank (1081511-BLK1)

Prepared & Analyzed: 08/20/01

cis-1,3-Dichloropropene	ND	1.00	ug/l							
trans-1,3-Dichloropropene	ND	1.00	"							
Ethylbenzene	ND	1.00	"							
Hexachlorobutadiene	ND	2.00	"							
2-Hexanone	ND	10.0	"							
Isopropylbenzene	ND	2.00	"							
p-Isopropyltoluene	ND	2.00	"							
4-Methyl-2-pentanone	ND	5.00	"							
Methyl tert-butyl ether	ND	1.00	"							
Methylene chloride	ND	5.00	"							
Naphthalene	ND	2.00	"							
n-Propylbenzene	ND	1.00	"							
Styrene	ND	1.00	"							
1,1,1,2-Tetrachloroethane	ND	1.00	"							
1,1,2,2-Tetrachloroethane	ND	1.00	"							
Tetrachloroethene	ND	1.00	"							
Toluene	ND	1.00	"							
1,2,3-Trichlorobenzene	ND	1.00	"							
1,2,4-Trichlorobenzene	ND	1.00	"							
1,1,1-Trichloroethane	ND	1.00	"							
1,1,2-Trichloroethane	ND	1.00	"							
Trichloroethene	ND	1.00	"							
Trichlorofluoromethane	ND	1.00	"							
1,2,3-Trichloropropane	ND	1.00	"							
1,2,4-Trimethylbenzene	ND	1.00	"							
1,3,5-Trimethylbenzene	ND	1.00	"							
Vinyl chloride	ND	1.00	"							
o-Xylene	ND	1.00	"							
m,p-Xylene	ND	2.00	"							
Surr: 4-BFB	20.9		"	20.0		104	75-125			
Surr: 1,2-DCA-d4	19.0		"	20.0		95.0	75-125			
Surr: Dibromofluoromethane	19.8		"	20.0		99.0	75-125			
Surr: Toluene-d8	20.4		"	20.0		102	75-125			

North Creek Analytical - Portland

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Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
Environmental Laboratory Network

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Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 21090, PO# 21090
 Project Manager: Anne Kranawetter

Reported:
 08/27/01 10:23

Volatile Organic Compounds per EPA Method 8260B - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1081511 - EPA 5030B

LCS (1081511-BS1)

Prepared & Analyzed: 08/20/01

Benzene	16.4	1.00	ug/l	20.0		82.0	80-125			
Chlorobenzene	16.3	1.00	"	20.0		81.5	80-125			
1,1-Dichloroethene	15.1	1.00	"	20.0		75.5	70-135			
Toluene	16.2	1.00	"	20.0		81.0	80-125			
Trichloroethene	17.1	1.00	"	20.0		85.5	70-130			
Surr: 4-BFB	20.0		"	20.0		100	75-125			
Surr: 1,2-DCA-d4	18.6		"	20.0		93.0	75-125			
Surr: Dibromofluoromethane	20.1		"	20.0		100	75-125			
Surr: Toluene-d8	20.6		"	20.0		103	75-125			

Matrix Spike (1081511-MS1)

Source: P1H0468-01

Prepared & Analyzed: 08/20/01

Benzene	19.6	1.00	ug/l	20.0	ND	98.0	80-125			
Chlorobenzene	18.4	1.00	"	20.0	ND	92.0	80-125			
1,1-Dichloroethene	19.7	1.00	"	20.0	ND	98.5	70-135			
Toluene	18.8	1.00	"	20.0	ND	92.2	80-125			
Trichloroethene	19.2	1.00	"	20.0	ND	96.0	70-130			
Surr: 4-BFB	20.0		"	20.0		100	75-125			
Surr: 1,2-DCA-d4	18.9		"	20.0		94.5	75-125			
Surr: Dibromofluoromethane	20.0		"	20.0		100	75-125			
Surr: Toluene-d8	20.2		"	20.0		101	75-125			

Matrix Spike Dup (1081511-MSD1)


Source: P1H0468-01

Prepared & Analyzed: 08/20/01

Benzene	19.9	1.00	ug/l	20.0	ND	99.5	80-125	1.52	25	
Chlorobenzene	18.7	1.00	"	20.0	ND	93.5	80-125	1.62	25	
1,1-Dichloroethene	19.6	1.00	"	20.0	ND	98.0	70-135	0.509	25	
Toluene	18.9	1.00	"	20.0	ND	92.6	80-125	0.531	25	
Trichloroethene	19.1	1.00	"	20.0	ND	95.5	70-130	0.522	25	
Surr: 4-BFB	20.5		"	20.0		102	75-125			
Surr: 1,2-DCA-d4	19.2		"	20.0		96.0	75-125			
Surr: Dibromofluoromethane	20.6		"	20.0		103	75-125			
Surr: Toluene-d8	20.7		"	20.0		104	75-125			

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North Creek Analytical, Inc.
 Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Anne Kranawetter

Reported:
08/27/01 10:23

Volatile Organic Compounds per EPA Method 8260B - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1081513 - EPA 5035


Blank (1081513-BLK1)

Prepared: 08/20/01 Analyzed: 08/23/01

Acetone	ND	2500	ug/kg
Benzene	ND	100	"
Bromobenzene	ND	100	"
Bromochloromethane	ND	100	"
Bromodichloromethane	ND	100	"
Bromoform	ND	100	"
Bromomethane	ND	500	"
2-Butanone	ND	1000	"
n-Butylbenzene	ND	500	"
sec-Butylbenzene	ND	100	"
tert-Butylbenzene	ND	100	"
Carbon disulfide	ND	1000	"
Carbon tetrachloride	ND	100	"
Chlorobenzene	ND	100	"
Chloroethane	ND	100	"
Chloroform	ND	100	"
Chloromethane	ND	500	"
2-Chlorotoluene	ND	100	"
4-Chlorotoluene	ND	100	"
1,2-Dibromo-3-chloropropane	ND	500	"
Dibromochloromethane	ND	100	"
1,2-Dibromoethane	ND	100	"
Dibromomethane	ND	100	"
1,2-Dichlorobenzene	ND	100	"
1,3-Dichlorobenzene	ND	100	"
1,4-Dichlorobenzene	ND	100	"
Dichlorodifluoromethane	ND	500	"
1,1-Dichloroethane	ND	100	"
1,2-Dichloroethane	ND	100	"
1,1-Dichloroethene	ND	100	"
cis-1,2-Dichloroethene	ND	100	"
trans-1,2-Dichloroethene	ND	100	"
1,2-Dichloropropane	ND	100	"
1,3-Dichloropropane	ND	100	"
2,2-Dichloropropane	ND	100	"
1,1-Dichloropropene	ND	100	"

North Creek Analytical - Portland

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North Creek Analytical, Inc.
Environmental Laboratory Network

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503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Anne Kranawetter

Reported:
08/27/01 10:23

Volatile Organic Compounds per EPA Method 8260B - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1081513 - EPA 5035

Blank (1081513-BLK1)

Prepared: 08/20/01 Analyzed: 08/23/01

cis-1,3-Dichloropropene	ND	100	ug/kg
trans-1,3-Dichloropropene	ND	100	"
Ethylbenzene	ND	100	"
Hexachlorobutadiene	ND	200	"
2-Hexanone	ND	1000	"
Isopropylbenzene	ND	200	"
p-Isopropyltoluene	ND	200	"
4-Methyl-2-pentanone	ND	500	"
Methyl tert-butyl ether	ND	100	"
Methylene chloride	ND	500	"
Naphthalene	ND	200	"
n-Propylbenzene	ND	100	"
Styrene	ND	100	"
1,1,1,2-Tetrachloroethane	ND	100	"
1,1,2,2-Tetrachloroethane	ND	100	"
Tetrachloroethene	ND	100	"
Toluene	ND	100	"
1,2,3-Trichlorobenzene	ND	100	"
1,2,4-Trichlorobenzene	ND	100	"
1,1,1-Trichloroethane	ND	100	"
1,1,2-Trichloroethane	ND	100	"
Trichloroethene	ND	100	"
Trichlorofluoromethane	ND	100	"
1,2,3-Trichloropropane	ND	100	"
1,2,4-Trimethylbenzene	ND	100	"
1,3,5-Trimethylbenzene	ND	100	"
Vinyl chloride	ND	100	"
o-Xylene	ND	100	"
m,p-Xylene	ND	200	"

Surr: 4-BFB	2400	"	2000	120	70-130
Surr: 1,2-DCA-d4	2170	"	2000	108	70-130
Surr: Dibromofluoromethane	2030	"	2000	102	70-130
Surr: Toluene-d8	2410	"	2000	120	70-130

North Creek Analytical - Portland

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Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
Environmental Laboratory Network

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Bristol Environmental & Engineering
 2000 W. International Airport Rd. #C-1
 Anchorage, AK 99502-1116

Project: Amchitka
 Project Number: 21090, PO# 21090
 Project Manager: Anne Kranawetter

Reported:
 08/27/01 10:23

Volatile Organic Compounds per EPA Method 8260B - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1081513 - EPA 5035

LCS (1081513-BS1)

Prepared: 08/20/01 Analyzed: 08/23/01

Benzene	2160	100	ug/kg	2500		86.4	80-135			
Chlorobenzene	2080	100	"	2500		83.2	80-135			
1,1-Dichloroethene	1780	100	"	2500		71.2	60-150			
Toluene	2260	100	"	2500		90.4	80-130			
Trichloroethene	2000	100	"	2500		80.0	70-135			
Surr: 4-BFB	2190		"	2000		110	70-130			
Surr: 1,2-DCA-d4	1960		"	2000		98.0	70-130			
Surr: Dibromofluoromethane	1810		"	2000		90.5	70-130			
Surr: Toluene-d8	2150		"	2000		108	70-130			

Matrix Spike (1081513-MS1)

Source: P1H0465-25

Prepared: 08/20/01 Analyzed: 08/23/01

Benzene	2110	100	ug/kg dry	2880	ND	73.3	60-135			
Chlorobenzene	2220	100	"	2880	ND	77.1	65-125			
1,1-Dichloroethene	1530	100	"	2880	ND	53.1	60-135			Q-01
Toluene	2240	100	"	2880	ND	77.3	60-125			
Trichloroethene	1870	100	"	2880	ND	64.9	60-125			
Surr: 4-BFB	2410		"	2300		105	70-130			
Surr: 1,2-DCA-d4	2110		"	2300		91.7	70-130			
Surr: Dibromofluoromethane	2060		"	2300		89.6	70-130			
Surr: Toluene-d8	2400		"	2300		104	70-130			

Matrix Spike Dup (1081513-MSD1)


Source: P1H0465-25

Prepared: 08/20/01 Analyzed: 08/23/01

Benzene	2110	100	ug/kg dry	2880	ND	73.3	60-135	0.00	25	
Chlorobenzene	2210	100	"	2880	ND	76.7	65-125	0.451	25	
1,1-Dichloroethene	1450	100	"	2880	ND	50.3	60-135	5.37	25	Q-01
Toluene	2270	100	"	2880	ND	78.4	60-125	1.33	25	
Trichloroethene	1930	100	"	2880	ND	67.0	60-125	3.16	25	
Surr: 4-BFB	2360		"	2300		103	70-130			
Surr: 1,2-DCA-d4	2050		"	2300		89.1	70-130			
Surr: Dibromofluoromethane	2010		"	2300		87.4	70-130			
Surr: Toluene-d8	2350		"	2300		102	70-130			

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
 Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Anne Kranawetter

Reported:
08/27/01 10:23

Physical Parameters per APHA/ASTM/EPA Methods - Quality Control

North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1081556 - EPA 1010

Duplicate (1081556-DUP1)


Source: P1H0491-01

Prepared & Analyzed: 08/20/01

Flashpoint	ND	150	°F		ND				50	
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Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.
Environmental Laboratory Network

20 of 21

Bristol Environmental & Engineering
2000 W. International Airport Rd. #C-1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090, PO# 21090
Project Manager: Anne Kranawetter


Reported:
08/27/01 10:23

Notes and Definitions

- A-01 Detected hydrocarbons do not have a distinct pattern and appear to be due to biogenic interference; however there appears to some weathered diesel, cleanup recommended.
- P-02 Results reported on 'As Received' basis.
- Q-01 The spike recovery, and/or RPD, for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- R-03 The reporting limit for this analyte was raised due to matrix interference.
- R-05 Reporting limits raised due to dilution necessary for analysis. Sample contains high levels of reported analyte, non-target analyte, and/or matrix interference.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.
- wet Sample results reported on a wet weight basis (as received)
- RPD Relative Percent Difference

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Jerry Orlando, Project Manager/QA

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Environmental Laboratory Network

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